CONTENTS OF VOL. 239

ORIGINAL ARTICLES

No. 1.—January

Rattlesnake Bites in Southern California. By Findlay E. Russell, M.D., Los Angeles, California . . . 1

An Analysis of the Clinical Application of the van den Bergh Reaction in Jaundice. By Jean Chapman, M.D., Thomas H. Johnson, Jr., M.D. and Michael M. Karl, M.D., St. Louis, Missouri . . . 11

Studies on Growth Hormone: V. Effect on the Mineral and Nitrogen Balances of Burned Patients. By Elinor Pearson, Captain, AMSC, Harry S. Soroff, M.D., John F. Prudden, M.D., Med. Sc.D. and Melvin S. Schwartz, M.D., Fort Sam Houston, Texas and New York, New York . . . 17

Studies on Growth Hormone: VI. Dependence of Anabolism on the Level of Intake. By Frank E. Gump, M.D., Melvin S. Schwartz, M.D. and John F. Prudden, M.D., Med. Sc.D., New York, New York . . . 27

Susceptibility of *Hemophilus influenzae* to 21 Antibiotics *in vitro*. By Hans A. Hirsch, M.D. and Maxwell Finland, M.D. with the technical assistance of Clare Wilcox, Boston, Massachusetts . . . 33

Susceptibility of Gonococci to Antibiotics and Sulfadiazine. By Hans A. Hirsch, M.D. and Maxwell Finland, M.D. with the technical assistance of Clare Wilcox, Boston, Massachusetts . . . 41

Influence of Erythrocytes on the Coagulation of Blood. By Armand J. Quick, M.D., Ph.D., with the technical assistance of Mary Elizabeth Hickey, Milwaukee, Wisconsin. 51

The Intravenous Congo Red Test: A Description of Some Unrecognized Fallacies with Suggested Improvements. By W. K. C. Morgan, M.B., M.R.C.P.E. and J. E. Mules, B.A., Baltimore, Maryland . . . 61

The Effect of Desiccated Thyroid on the Hyperlipoproteinemia of Xanthoma tendinosum. By Beverly Strisower, A B., John W. Gofman, M.D., Ph.D., Leonard Rubin, M.D., Ph.D., Donald Rosenthal, M.D. Ph.D. and Oliver de Lalla,; Ph.D., Berkeley, California . . . 71

The Effect of Parenteral Vitamin B_{12} on Muscle Contraction in Hypothyroidism. By John D. Lawson, Major, MC, USA and Arthur S. Weissbein, Captain, MC, USA, Fort Sam Houston, Texas . . . 77

The Heart Sounds in Intermittent Left and Right Bundle Branch Block. By Louis A. Soloff, M.D., Felix Cortes, M.D. and William L. Winters, Jr., M.D., Philadelphia, Pennsylvania . . . 83

The Effect of Pyrazinamide-induced Hyperuricemia on Serum Lipids. By Alfred Kershbaum, M.D., Leonard J. Feinberg, Ph.D., Antonio C. deLeon, M.D. and Samuel Bellet, M.D., Philadelphia, Pennsylvania . . . 89

Studies on the Absorption, Distribution, Excretion. and Use of a New Long-acting Sulfonamide (Sulfadimethoxine) in Children and in Adults. By Toru Sakuma, M.D., C. W. Daeschner, M.D. and Ellard M. Yow, M.D., Houston, Texas . . . 92

No. 2.—February

Variations in Serum Lipid Concentration and Clinical Coronary Disease. By M. E. Groover, Jr., M.D., J. A. Jernigan, M.D. and C. D. Martin, M. D., Washington, D.C. 133

Radioiodine Tracer Tests in the Evaluation of Thyroid Function. Results of 6-Hour and 24-Hour Uptake Determinations in 357 Patients. By Jesse D. Ibarra, Jr., M.D., John Q. Thompson, M.D., John S. Alexander, M.D. and Zoltan Petrany, M.D., Temple, Texas 140

Urinary Osmolar Concentration: A Means of Evaluating Early Renal Function Changes in Essential Hypertension. By Antonio C. deLeon, Jr., M.D., Leonard S. Dreifus, M.D. and Samuel Bellet, M.D., Philadelphia, Pennsylvania 144

The Use of Syrosingopine (SU-3118) and Hydralazine in Ambulatory Hypertensive Patients. By Richard A. Dunsmore, M.D., Lillian D. Dunsmore, M.D. and Max Elias, M.D., Philadelphia, Pennsylvania 148

Intravenous Mecamylamine (Inversine) as a Means of Determining the Effective Oral Dosage. By Robert F. Maronde, M.D., Benjamin Barbour, M.D. and Wallace Frasher, M.D., Los Angeles, California 154

Asymptomatic Bacilluria in Sixty-eight Diabetic Patients. By Robert T. Rengarts, M.D., Boston, Massachusetts 159

Comparative Effects on Urinary Electrolyte Excretion Following Two Benzothiadiazine Diuretics, Flumethiazide and Chlorothiazide. By Ralph V. Ford, M.D., Houston, Texas 165

Potentiation and Stabilization of Aortic Strip Pressor Assay by Plasma and Hydrocortisone: Routine Use in the Diagnosis of Pheochromocytoma. By Arthur C. Heineman, Jr., M.D. and T. S. Danowski, M.D., Pittsburgh, Pennsylvania 167

Urinary Sodium Retention after ACTH Stimulation: A Rapid, Simple Screening Test for Adrenal Cortical Insufficiency. By Thomas M. Batchelor, M.D. and Robert E. Mosher, Ph.D., Detroit, Michigan 175

Quinidine in Chronic Atrial Fibrillation. By Irving Freeman, M.D. and Jack Wexler, M.D., Baltimore, Maryland 181

Are the Xanthines Effective in Angina Pectoris? By Henry I. Russek, M.D., Staten Island, New York 187

The Treatment of Angina Pectoris with a New Prolonged Action Pentaerythritol Tetranitrate. By Milton Plotz, M.D., New York, New York 194

Effect of Food on Absorption of a New Form of Erythromycin Propionate. By Hans A. Hirsch, M.D., Charles V. Pryles, M.D. and Maxwell Finland, M.D., Boston, Massachusetts 198

Serotonin Degradation by Ceruloplasmin and Its Inhibition by Isoniazid and Iproniazid. By Chris J. D. Zarafonetis, M.D. and John P. Kalas, M.D., Philadelphia, Pennsylvania 203

The Hypnotic Effect of a New Propanediol Dicarbamate, W 583 (A Double Blind, Double Dose Study). By Tibor Bodi, M.D., Howard A. Levy, M.D., John H. Nodine, M.D. and John H. Moyer, M.D., Philadelphia, Pennsylvania 207

Amelioration of Human Hypoglycemic Symptoms by Intravenous Fructose. By Holbrooke S. Seltzer, M.D., Magid Iunes, M.D., Eugene J. Kulinski, M.D. and Jerome W. Conn, M.D., Ann Arbor, Michigan 213

No. 3.—March

Steroid-Induced Adrenal Insufficiency Aggravated by Severe Medical Illness. By Robert S. Capper, Captain, MC, and Robert H. Moser, Major, MC, Fort Sam Houston, Texas . . . 261

A Preliminary Study on the Clinical Use of Choline Salicylate. By George M. Davis, Captain, MC, USN, Paul T. Moore, Captain, MC, USN, Jan K. Siemsen, Lt.CDR, MC, USNR, Jonas Sode, Lt., MC, USNR and William J. Baker, Lt., MC, USN, Oakland, California, and Great Lakes, Illinois . . . 273

Current Problems in Salmonellosis. By Harrison F. Flippin, M.D. and George M. Eisenberg, Sc.D., Philadelphia, Pennsylvania . . . 278

Comparative Activity of Four Tetracycline Analogues Against Pathogenic Bacteria *in Vitro*. By Hans A. Hirsch, M.D. and Maxwell Finland, M.D., with the technical assistance of Clare Wilcox, Boston, Massachusetts . . . 288

Vibratory Sense and Oscillometric Index in Gout and Rheumatoid Arthritis. By T. S. Danowski, M.D., Campbell Moses, Jr., M.D. and Harry M. Margolis, M.D., Pittsburgh, Pennsylvania . . . 295

The 17-Ketosteroids in Liver Disease. By Murray Franklin, M.D., William B. Bean, M.D., Harold Schedl, M.D., Ph.D. and James Embick, M.D., Iowa City, Iowa . . . 301

Respiratory and Cardiac Deaths in Los Angeles Smogs during 1956, 1957 and 1958. By C. A. Mills, M.D., Cincinnati, Ohio . . . 307

Motor Exhaust Gases and Lung Cancer in Cincinnati. By C. A. Mills, M.D., Cincinnati, Ohio . . . 316

Influenza-Like Illness in Naval Personnel, Spring, 1959. By P. K. Fraser, M.D., Surgeon Captain, R.N., L. A. Hatch, M.B., B.S., Dip. Bact., L. G. H. Le Clercq, M.R.C.S., L.R.C.P., Surgeon Commander, R.N. and Jill M. R. Forster, F.I.M.L.T., Haslar, Portsmouth and Hampshire, England . . . 320

Primary Aldosteronism. Observations on 2 Cases. By Felix Cortes, M.D., Charles R. Shuman, M.D. and Bertram J. Channick, M.D., Philadelphia, Pennsylvania. 324

Increased Aldosterone Excretion during Chronic Sodium Deprivation in Two Male Subjects. By Richard E. Bailey, M.D. and Kathleen E. Roberts, M.D., San Francisco, California . . . 338

The Treatment of Respiratory Acidosis with THAM. By Geoffrey L. Brinkman, M.D., Donald G. Remp, Ph.D., E. Osborne Coates, Jr., M.D. and E. McCall Priest, M.D., Detroit, Michigan . . . 341

No. 4.—April

Perspectives in the Treatment of Diabetes. By Garfield G. Duncan, M.D., Philadelphia, Pennsylvania . . . 397

Prevention of Recurrent Rheumatic Fever in Children and Adults with Oral and Repository Penicillin. By Thomas W. Mou, M.D., Harry A. Feldman, M.D. and Hans Hartenstein, M.D., Syracuse, New York . . . 403

Iodide-Induced Myxedema: Report of a Case and Review of the Literature. By James T. Taguchi, M.D. and Thomas G. Skillman, M.D., Dayton and Columbus, Ohio . . . 417

Pulmonary and Allergic Manifestations of Cystic Fibrosis of the Pancreas. By A. M. Fisher, M.D., T. E. Van Metre, Jr., M.D. and W. L. Winkenwerder, M.D., Baltimore, Maryland . . . 430

Comparison of Three New Antihistaminics with Parabromdylamine Maleate. By Jerome Miller, M.D., Philadelphia, Pennsylvania . . . 439

Observations Concerning the Significance of Fatty and Fibrous Tissue in Needle Biopsies of the Liver. By Robert J. Hartsock, M.D. and Edwin R. Fisher, M.D., Pittsburgh, Pennsylvania 445

Pseudo-Pseudohypoparathyroidism: Three Cases in One Family. By Stanley S. Tanz, M.D., Tucson, Arizona 453

The Spatial Vectorcardiogram and Ventricular Gradient in Apical Myocardial Infarction in Necropsied Patients. By N. P. DePasquale, M.D. and G. E. Burch, M.D., New Orleans, Louisiana 462

Arterial Pulse Recording in Peripheral Vascular Disease. By Alfredo Buzzi, M.D., Buenos Aires, Argentina 469

Evaluation of the Nitrites in the Treatment of Angina Pectoris. By Henry I. Russek, M.D., Staten Island, New York 478

The Cardiovascular-Respiratory Effects of a New Xanthine Derivative in Chronic Pulmonary Emphysema and in Mitral Stenosis. By Frank Barrera, M.D., Jose C. Dominguez, M.D., Rosa L. Changsut, M.D., Gabriel G. Regalado, M.D., Luis Arias, M.D. and Jose Faura, M.D., Havana, Cuba 487

Electrocardiographic Signs of Pericarditis in Typhoid Fever. By Marcel Eliakim, M.D., Jerusalem, Israel 492

No. 5.—May

Some Quantitative Observations on a Methamphetamine-Phenobarbital Anorexic Compound in Obese Outpatients. By Benjamin Simkin, M.D. and Leon Wallace, M.D., Los Angeles, California 533

Serum Levels and Clinical Results with Erythromycin Propionate. By Herbert A. Blough, M.D., Wendell H. Hall, M.D., Ph.D. and Leland Hong, B.S., Minneapolis, Minnesota 539

Use of Sulfadimethoxine in the Prevention of Streptococcal Infections in Rheumatic Patients. By Agnes Lattimer, M.D., Albert J. Simon, M.D. and Mark H. Lepper, M.D., Chicago and Bartlett, Illinois 548

Malignant Disease in the Aged: Review of 16 Years' Experience in a Modern Medical Facility for the Elderly. By Ernst Elias, M.D. and Gerson J. Lesnick, M.D., New York, New York 554

Incidence of Hypothyroidism in More than One Member of a Family. By Marshall Goldberg, M.D., Paris, France 562

Effect of Diuretics upon the Serum Protein Bound Iodine and the Thyroidal Uptake of Radioactive Iodine. By David E. Schteingart, M.D., Martin Perlmutter, M.D. and Marvin Numeroff, M.S., New York, New York 571

Studies on Growth Hormone. VII. The Activity of Growth Hormone in Suppression of Cortisone-Induced Cleft Palate and Fetal Absorption in Mice. By Gentaro Nishihara, M.D., Melvin S. Schwartz, M.D. and John F. Prudden, M.D., Med. Sc.D., New York, New York 578

The Syndrome of Polycystic Ovaries and Hyperthecosis: A Clinical Evaluation. By Andre Lanthier, M.D., F.R.C.P.(c), Simon Lauze, M.D. and C. E. Grignon, M.D., Montreal, Canada 585

The Cerebral Peripheral Circulatory Action of Nylidrin Hydrochloride. By Travis Winsor, M.D., Chester Hyman, Ph.D. and F. M. Knapp, Ph.D., Los Angeles, California 594

An Exploration of the Antihypertensive Action of Chlorothiazide. By Robert J. T. Joy, Captain, MC, USA and William R. Beisel, Major, MC, USA, Washington, D.C. 601

Darenthin: A New Anti-Hypertensive Drug. Preliminary Report. By Louis A. Soloff, M.D., Philadelphia, Pennsylvania 609

Studies on the Role of the Reticuloendothelial System in Hurler's Disease. By Louis F. Jermain, M.D., Robert J. Rohn, M.D. and William H. Bond, M.D., Indianapolis, Indiana 612

No. 6.—June

A Rapid Quantitative Method for the Comparison of Diuretic Agents in Bed-Patients with Congestive Failure. By Harry Gold, M.D., Nathaniel T. Kwit, M.D., Agryrios J. Golfinos, M.D. and Irwin D. J. Bross, Ph.D., New York, New York 665

A Controlled Study of Trimethobenzamide (Tigan), a Specific Antiemetic. By A. Lewis Kolodny, M.D., Baltimore, Maryland 682

The Acute Effect of Ethanol Ingestion on Plasma and Urinary 17-Hydroxycorticoids in Alcoholic Subjects. By Benjamin Kissin, M.D., Victor Schenker, Ph.D. and Anne C. Schenker, B.Sc., Brooklyn, New York 690

A Single Determination Assay of Thromboplastin Generation as a Test of Liver Function. By S. Frederick Rabiner, M.D., New York, New York 706

Gallstones and Pregnancy: The Composition of Gallbladder Bile in the Pregnant Woman at Term. By Alfred M. Large, M.D., Charles G. Johnston, M.D., Taketo Katsuki, M.D. and Harold L. Fachnie, M.D., Detroit, Michigan . . . 713

Morphological Aspects of Renal Glycosuria. By P. Leonardi, M.D., A. Ruol, M.D. and R. Munari, M.D., Padova, Italy 721

The Use of THAM to Prevent Hyperventilation and Acidosis While Breathing Carbon Dioxide. By Geoffrey L. Brinkman, M.D., Detroit, Michigan 728

Treatment of Occlusive Vascular Disease with Disodium Ethylene Diamine Tetraacetic Acid (EDTA). By Norman E. Clarke, Sr., M.D., Norman E. Clarke, Jr., M.D. and Robert E. Mosher, Ph.D., Detroit, Michigan 732

Plasma 17-Hydroxycorticosteroid Levels in Normotensive and Hypertensive Subjects and the Influence of Posture. By C. A. Papacostas, Ph.D., R. W. Sevy, M.D., Ph.D, E. A. Ohler, Ph.D., C. T. Bello, M.D. and L. Brenes, M.D., Philadelphia, Pennsylvania 745

Association of Cyanocobalamin Deficiency with Myeloproliferative States: Report of Three Cases. By Mark S. Wellington, M.D. and John F. Whitcomb, M.D., Framingham, Massachusetts 750

Iron Enzymes in Iron Deficiency: VII. Oxygen Consumption Measurements in Iron-Deficient Subjects. By Ernest Beutler, M.D., Suzanne Larsh, M.D. and Fausto Tanzi, M.D., Chicago, Illinois 759

NEW BOOKS AND NEW EDITIONS

Book Reviews and Notices 130, 255, 384, 522, 655, 782

PROGRESS OF MEDICAL SCIENCE

Medicine

The Waning Joint. By M. R. Jeffrey, M.D., M.R.C.P., New Orleans, Louisiana . . 104

Neurology and Psychiatry

The Schizophrenias, 1959: A Review. By James Galvin, M.D., Denver, Colorado . 125

Ophthalmology

The Pathogenesis of Papilledema in Intracranial Disease: A Review of the Literature. By William B. Glew, M.D., Washington, D.C. 221

Surgery
The Gastric Antrum. By GERALD W. PESKIN, M.D. and JAMES C. THOMPSON, M.D., M.A., Philadelphia, Pennsylvania 231

Pathology and Bacteriology
Bacterial Infections of Animals Transmissible to Man. By L. W. MACPHERSON, PH.D.(EDIN.), M.R.C.V.S., D.V.S.M., Toronto, Canada 347

Preventive Medicine and Epidemiology
Rubella: Its Epidemiology and Teratology. By THEODORE H. INGALLS, M.D., FRANK L. BABBOTT, JR., M.D., KENNETH W. HAMPSON, M.D. and JOHN E. GORDON, M.D., Philadelphia, Pennsylvania and Boston, Massachusetts 363

Oto-Rhino-Laryngology
Sexual Functions and the Nose. By NOAH D. FABRICANT, M.D., Chicago, Illinois . 498

Dermatology and Syphilology
Gynecodermatologic Diseases: A Review of Some of the Recent Literature. By THOMAS PASTRAS, M.D. and HERMAN BEERMAN, M.D., Philadelphia, Pennsylvania 503

Radiology
Roentgenographic Manifestations of Diabetes Mellitus. By MARTIN W. DONNER, M.D. and JOHN G. MCAFEE, M.D., Baltimore, Maryland 622

Therapeutics
Current Management of the Pathophysiological Disorders in Cirrhosis and Hepatitis. By STANLEY REICHMAN, M.D., New York, New York 642

Gynecology and Obstetrics
The Study of Fetal Problems with Electronic Methods. By W. BENSON HARER, JR., CAPTAIN, USAF (MC) and ROBERT E. DAVIS, M.D., Philadelphia, Pennsylvania. 766

Pediatrics
Renal Manifestations of Sickle Cell Disease. By LUDWIG E. SCHLITT, M.D. and HANS G. KEITEL, M.D., Philadelphia, Pennsylvania 773

Physiology
Proceedings of The Physiological Society of Philadelphia, November 17, 1959 . 779